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(54) Title: GLASS FILLER MATERIAL AND METHOD OF PRODUCTION

(57) Abstract: The present invention relates to a glass filler material with an average particle size of 0.1 - 20 µm. It further relates to a method for producing a glass filler material. The glass filler material comprises 65 - 99.95 mol% silicon dioxide (SiO_2), 0 - 15 mol% aluminum and/or boron oxide (Al_2O_3, B_2O_3), 0 - 30 mol % zirconium and/or titanium and/or hafnium oxide (ZrO_2, TiO_2, HfO_2), Y_2O_3 and/or Sc_2O_3 and/or La_2O_3 and/or CeO_2 and/or other lanthanide oxides, 0.05 - 4 mol% alkali metal oxides (Na_2O, Li_2O, K_2O, Rb_2O, Cs_2O), 0 - 25 mol% earth alkali metal oxides (MgO, CaO, SrO, BaO). The glass filler material shows a low concentration of alkali ions and is used for composites with cationically curing properties and for dental composites and dental restoration materials.

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